Maoshuai He

List of Publications by Year
in descending order

75 papers	3,217 citations	172457 29 h-index	155660 55 g-index
75 all docs	75 docs citations	75 times ranked	3725 citing authors

#	Article	IF	Citations
1	Chemical vapor deposition growth of single-walled carbon nanotubes from plastic polymers. Carbon, 2022, 187, 29-34.	10.3	29
2	Temperature-dependent selective nucleation of single-walled carbon nanotubes from stabilized catalyst nanoparticles. Chemical Engineering Journal, 2022, 431, 133487.	12.7	13
3	Narrow-chirality distributed single-walled carbon nanotube synthesized from oxide promoted Feâ€“SiC catalyst. Carbon, 2022, 191, 146-152.	10.3	11
4	Interfacial boron modification on mesoporous octahedral rhodium shell and its enhanced electrocatalysis for water splitting and oxygen reduction. Chemical Engineering Journal, 2022, 435, 134982.	12.7	13
5	Laser switching characteristics of enriched (7,5) single-walled carbon nanotubes at 640 nm. Carbon, 2022, 191, 433-438.	10.3	3
6	Bulk growth and separation of single-walled carbon nanotubes from rhenium catalyst. Nano Research, 2022, 15, 5775-5780.	10.4	3
7	Chirality distribution of single-walled carbon nanotubes grown from gold nanoparticles. Carbon, 2022, 192, 259-264.	10.3	10
8	Solid supported ruthenium catalyst for growing single-walled carbon nanotubes with narrow chirality distribution. Carbon, 2022, 193, 35-41.	10.3	7
9	Subnanometer Single-Walled carbon nanotube growth from Fe-Containing Layered double hydroxides. Chemical Engineering Journal, 2022, 446, 137087.	12.7	7
10	Palladium Nanobelts with Expanded Lattice Spacing for Electrochemical Oxygen Reduction in Alkaline Media. ACS Applied Nano Materials, 2021, 4, 2118-2125.	5.0	11
11	SiO2-promoted growth of single-walled carbon nanotubes on an alumina supported catalyst. Carbon, 2021, 176, 367-373.	10.3	18
12	Designed borophene/TMDs hybrid catalysts for enhanced hydrogen evolution reactions. Journal of Materials Chemistry C, 2021, 9, 15877-15885.	5.5	15
13	Carbon fiber-promoted activation of catalyst for efficient growth of single-walled carbon nanotubes. Carbon, 2020, 156, 410-415.	10.3	12
14	Stability of iron-containing nanoparticles for selectively growing single-walled carbon nanotubes. Carbon, 2020, 158, 795-801.	10.3	9
15	Horizontal Single-Walled Carbon Nanotube Arrays: Controlled Synthesis, Characterizations, and Applications. Chemical Reviews, 2020, 120, 12592-12684.	47.7	74
16	Low-temperature growth of carbon shells on gold and copper nanoparticles in transmission electron microscope. Carbon, 2020, 167, 541-547.	10.3	2
17	Bioinspired Fluffy Fabric with In Situ Grown Carbon Nanotubes for Ultrasensitive Wearable Airflow Sensor. Advanced Materials, 2020, 32, e1908214.	21.0	146
18	A robust CoxMg1-xO catalyst for predominantly growing (6, 5) single-walled carbon nanotubes. Carbon, 2019, 153, 389-395.	10.3	22

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19	Iridium-catalyzed growth of single-walled carbon nanotubes with a bicentric diameter distribution. Materials Chemistry Frontiers, 2019, 3, 1882-1887.	5.9	8
20	Sizable bandgaps of graphene in 3d transition metal intercalated defective graphene/WSe₂ heterostructures. RSC Advances, 2019, 9, 18157-18164.	3.6	8
21	Laser Irradiation-Hindered Growth of Small-Diameter Single-Walled Carbon Nanotubes by Chemical Vapor Deposition. Journal of Nanomaterials, 2019, 2019, 1-7.	2.7	0
22	Iron silicide-catalyzed growth of single-walled carbon nanotubes with a narrow diameter distribution. Carbon, 2019, 149, 139-143.	10.3	17
23	Advance in Closeâ€Edged Graphene Nanoribbon: Property Investigation and Structure Fabrication. Small, 2019, 15, e1804473.	10.0	20
24	Controllable Growth of (n, n âˆ’1) Family of Semiconducting Carbon Nanotubes. CheM, 2019, 5, 1182-1193.	11.7	38
25	Growth kinetics of single-walled carbon nanotubes with a (2 <i>n</i> , <i>n</i>) chirality selection. Science Advances, 2019, 5, eaav9668.	10.3	42
26	3d Transition Metal-Metallofullerene-Ligand Molecular Wires: Robust One-Dimensional Antiferromagnetic Semiconductors. Journal of Physical Chemistry C, 2019, 123, 30571-30577.	3.1	6
27	Synthesis of octahedral Ptâ€“Niâ€“Ir yolkâ€“shell nanoparticles and their catalysis in oxygen reduction and methanol oxidization under both acidic and alkaline conditions. Nanoscale, 2019, 11, 23206-23216.	5.6	24
28	Designing Catalysts for Chiralityâ€Selective Synthesis of Singleâ€Walled Carbon Nanotubes: Past Success and Future Opportunity. Advanced Materials, 2019, 31, e1800805.	21.0	59
29	Chemical vapor deposition synthesis of carbon nanosprouts on calcined stainless steel. Materials Letters, 2019, 238, 290-293.	2.6	8
30	Is there chiral correlation between graphitic layers in double-wall carbon nanotubes?. Carbon, 2019, 144, 147-151.	10.3	16
31	Ptâ€Pd Bimetal Popcorn Nanocrystals: Enhancing the Catalytic Performance by Combination Effect of Stable Multipetals Nanostructure and Highly Accessible Active Sites. Small, 2018, 14, e1703613.	10.0	29
32	High temperature growth of single-walled carbon nanotubes with a narrow chirality distribution by tip-growth mode. Chemical Engineering Journal, 2018, 341, 344-350.	12.7	23
33	Growth modes and chiral selectivity of single-walled carbon nanotubes. Nanoscale, 2018, 10, 6744-6750.	5.6	67
34	Anchoring effect of Ni2+ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. Carbon, 2018, 128, 249-256.	10.3	28
35	Chirality-controlled synthesis of single-walled carbon nanotubesâ€"From mechanistic studies toward experimental realization. Materials Today, 2018, 21, 845-860.	14.2	34
36	Temperature Dependence of Gâˆ’ Mode in Raman Spectra of Metallic Single-Walled Carbon Nanotubes. Journal of Nanomaterials, 2018, 2018, 1-6.	2.7	4

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37	Growth Termination and Multiple Nucleation of Single-Wall Carbon Nanotubes Evidenced by <i>in Situ</i> Transmission Electron Microscopy. ACS Nano, 2017, 11, 4483-4493.	14.6	60
38	One-Pot Synthesis of Concave Platinumâ€"Cobalt Nanocrystals and Their Superior Catalytic Performances for Methanol Electrochemical Oxidation and Oxygen Electrochemical Reduction. ACS Applied Materials & Interfaces, 2017, 9, 36164-36172.	8.0	62
39	Linking growth mode to lengths of single-walled carbon nanotubes. Carbon, 2017, 113, 231-236.	10.3	75
40	Organic sulfate modified carbon nantube/polypyrrole core-shell nanocomposites with improved electrochemical performance. Synthetic Metals, 2016, 217, 288-294.	3.9	3
41	Interfacial microstructure and mechanical properties of carbon fiber composites by fiber surface modification with poly(amidoamine)/polyhedral oligomeric silsesquioxane. Composites Part A: Applied Science and Manufacturing, 2016, 90, 653-661.	7.6	55
42	Interfacial Microstructure and Enhanced Mechanical Properties of Carbon Fiber Composites Caused by Growing Generation 1â€"4 Dendritic Poly(amidoamine) on a Fiber Surface. Langmuir, 2016, 32, 8339-8349.	3.5	67
43	Chiral-selective growth of single-walled carbon nanotubes on Fe-based catalysts using CO as carbon source. Carbon, 2016, 108, 521-528.	10.3	53
44	High Durable Ternary Nanodendrites as Effective Catalysts for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 23646-23654.	8.0	28
45	Effect of a multiscale reinforcement by carbon fiber surface treatment with graphene oxide/carbon nanotubes on the mechanical properties of reinforced carbon/carbon composites. Composites Part A: Applied Science and Manufacturing, 2016, 90, 433-440.	7.6	157
46	Environmental transmission electron microscopy investigations of Pt-Fe2O3 nanoparticles for nucleating carbon nanotubes. Carbon, 2016, 110, 243-248.	10.3	27
47	Fe Ti O based catalyst for large-chiral-angle single-walled carbon nanotube growth. Carbon, 2016, 107, 865-871.	10.3	11
48	Key roles of carbon solubility in single-walled carbon nanotube nucleation and growth. Nanoscale, 2015, 7, 20284-20289.	5.6	27
49	Insights into chirality distributions of single-walled carbon nanotubes grown on different Co_xMg_{1â^'x}O solid solutions. Journal of Materials Chemistry A, 2014, 2, 5883-5889.	10.3	26
50	Concentrated solutions of individualized single walled carbon nanotubes. Carbon, 2014, 67, 360-367.	10.3	20
51	Precise Determination of the Threshold Diameter for a Single-Walled Carbon Nanotube To Collapse. ACS Nano, 2014, 8, 9657-9663.	14.6	43
52	Growth of single-walled carbon nanotubes with large chiral angles on rhodium nanoparticles. Nanoscale, 2013, 5, 10200.	5.6	8
53	Single-walled carbon nanotube networks for ethanol vapor sensing applications. Nano Research, 2013, 6, 77-86.	10.4	36
54	Synergistic effects in FeCu bimetallic catalyst for low temperature growth of single-walled carbon nanotubes. Carbon, 2013, 52, 590-594.	10.3	30

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55	Chiral-Selective Growth of Single-Walled Carbon Nanotubes on Lattice-Mismatched Epitaxial Cobalt Nanoparticles. Scientific Reports, 2013, 3, 1460.	3.3	175
56	Direct synthesis of high-quality single-walled carbon nanotubes by the physical nucleation of iron nanoparticles in an atmospheric pressure carbon monoxide flow. Carbon, 2012, 50, 5343-5345.	10.3	6
57	Diameter and chiral angle distribution dependencies on the carbon precursors in surface-grown single-walled carbon nanotubes. Nanoscale, 2012, 4, 7394.	5.6	57
58	Study of the Thermal Stability of Supported Catalytic Nanoparticles for the Growth of Single-Walled Carbon Nanotubes with Narrow Diameter Distribution by Chemical Vapor Deposition of Methane. Journal of Physical Chemistry C, 2012, 116, 24123-24129.	3.1	13
59	Growth Mechanism of Single-Walled Carbon Nanotubes on Ironâ€“Copper Catalyst and Chirality Studies by Electron Diffraction. Chemistry of Materials, 2012, 24, 1796-1801.	6.7	63
60	Chiral-selective growth of single-walled carbon nanotubes on stainless steel wires. Carbon, 2012, 50, 4294-4297.	10.3	28
61	Growth and surface engineering of vertically-aligned low-wall-number carbon nanotubes. Carbon, 2012, 50, 4750-4754.	10.3	14
62	Selective growth of SWNTs on partially reduced monometallic cobalt catalyst. Chemical Communications, 2011, 47, 1219-1221.	4.1	64
63	Low temperature growth of SWNTs on a nickel catalyst by thermal chemical vapor deposition. Nano Research, 2011, 4, 334-342.	10.4	50
64	Predominant (6,5) Single-Walled Carbon Nanotube Growth on a Copper-Promoted Iron Catalyst. Journal of the American Chemical Society, 2010, 132, 13994-13996.	13.7	164
65	Effect of Hydrogen Pressure on the Size of Nickel Nanoparticles Formed during Dewetting and Reduction of Thin Nickel Films. Journal of Physical Chemistry C, 2010, 114, 89-92.	3.1	27
66	Temperature Dependent Raman Spectra of Carbon Nanobuds. Journal of Physical Chemistry C, 2010, 114, 13540-13545.	3.1	22
67	A Facile Route to Homogeneous High Density Networks of Metal Nanoparticles. Langmuir, 2009, 25, 11285-11288.	3.5	11
68	Solutions of Negatively Charged Graphene Sheets and Ribbons. Journal of the American Chemical Society, 2008, 130, 15802-15804.	13.7	444
69	CVD Growth of N-Doped Carbon Nanotubes on Silicon Substrates and Its Mechanism. Journal of Physical Chemistry B, 2005, 109, 9275-9279.	2.6	68
70	Surfactant-Resisted Assembly of Fe-Containing Nanoparticles for Site-Specific Growth of SWNTs on Si Surface. Journal of Physical Chemistry B, 2005, 109, 10946-10951.	2.6	13
71	Ribbon- and Boardlike Nanostructures of Nickel Hydroxide:Â Synthesis, Characterization, and Electrochemical Properties. Journal of Physical Chemistry B, 2005, 109, 7654-7658.	2.6	139
72	Thionine-mediated chemistry of carbon nanotubes. Carbon, 2004, 42, 287-291.	10.3	147

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73	Iron Catalysts Reactivation for Efficient CVD Growth of SWNT with Base-growth Mode on Surface. Journal of Physical Chemistry B, 2004, 108, 12665-12668.	2.6	38
74	Bimetallic Catalysts for the Efficient Growth of SWNTs on Surfaces. Chemistry of Materials, 2004, 16, 799-805.	6.7	47
75	Ni-Foam Structured Ni-Phyllosilicate Ensemble as an Efficient Monolithic Catalyst for CO2 Methanation. Catalysis Letters, 0, , 1.	2.6	3